

We claim:

- Self*
1. A method for modulating body organ functioning comprising the following steps:
 - a. collecting waveforms from a body generated in the body and carried by neurons in the body,
 - b. storing the collected waveforms, and
 - c. transmitting one or more of the collected waveforms to a body organ to stimulate organ function.
 2. The method according to claim 1 in which step "a" further includes transforming said collected waveforms into a readable format for a processor.
 3. The method according to claim 2 in which the transforming step comprises transforming analog signals into digital form.
 4. The method according to claim 1 in which step "b" further includes storing said collected waveforms according to function performed by the waveforms.
 5. The method according to claim 1 in which step "c" further includes transmitting said collected waveforms to a body via a digital to analog converter.
 6. An apparatus for modulating body organ functioning, comprising:
 - a. a source of collected waveforms indicative of body organ functioning,
 - b. means for transmitting one or more of the collected waveforms to a body organ,

and

c. means for applying the transmitted waveforms to the body organ to stimulate or regulate organ function.

7. The apparatus according to claim 6, in which said transmitting means includes a digital to analog converter.

8. The apparatus according to claim 6, in which said source comprises a computer having collected waveforms stored in digital format.

9. The apparatus according to claim 8, in which said computer includes separate storage areas for collected waveforms of different functional categories.

10. The apparatus according to claim 6, further including means for collecting waveforms from a body and transmitting collected waveforms to said source.

11. The apparatus according to claim 10, in which said collecting means comprises a sensor placed on the body.

12. The apparatus according to claim 11, including a recorder for recording sensed waveforms in analog form.

13. The apparatus according to claim 12, including an analog to digital converter connected to said recorder for converting the sensed waveforms.

14. The apparatus according to claim 11, including a digital to analog converter for converting collected waveforms.

15. The apparatus according to claim 6, in which said applying means comprises a body electrode.